

**Abstract of the Disclosure**

First, a digital section constituting a linearizer is activated. Then, a feedback loop for  
5 updating a distortion compensation coefficient is opened. Then, the analog section on the antenna side is activated from an ADC, including a PA, etc., or a DAC. Then, both the ATN value of an ATN installed in a feedback route for updating the distortion  
10 compensation coefficient and the signal delay amount of a signal delay unit are adjusted to make a state such that the distortion compensation coefficient can be accurately updated. Then, the feedback loop is closed, a distortion compensation table having the distortion  
15 compensation coefficient as an entry is generated and after the generation is completed, the operation shifts to the normal operation.